OIPE IAP21 OCT 26 2005 PATENT & TRADEMARK OFFICE

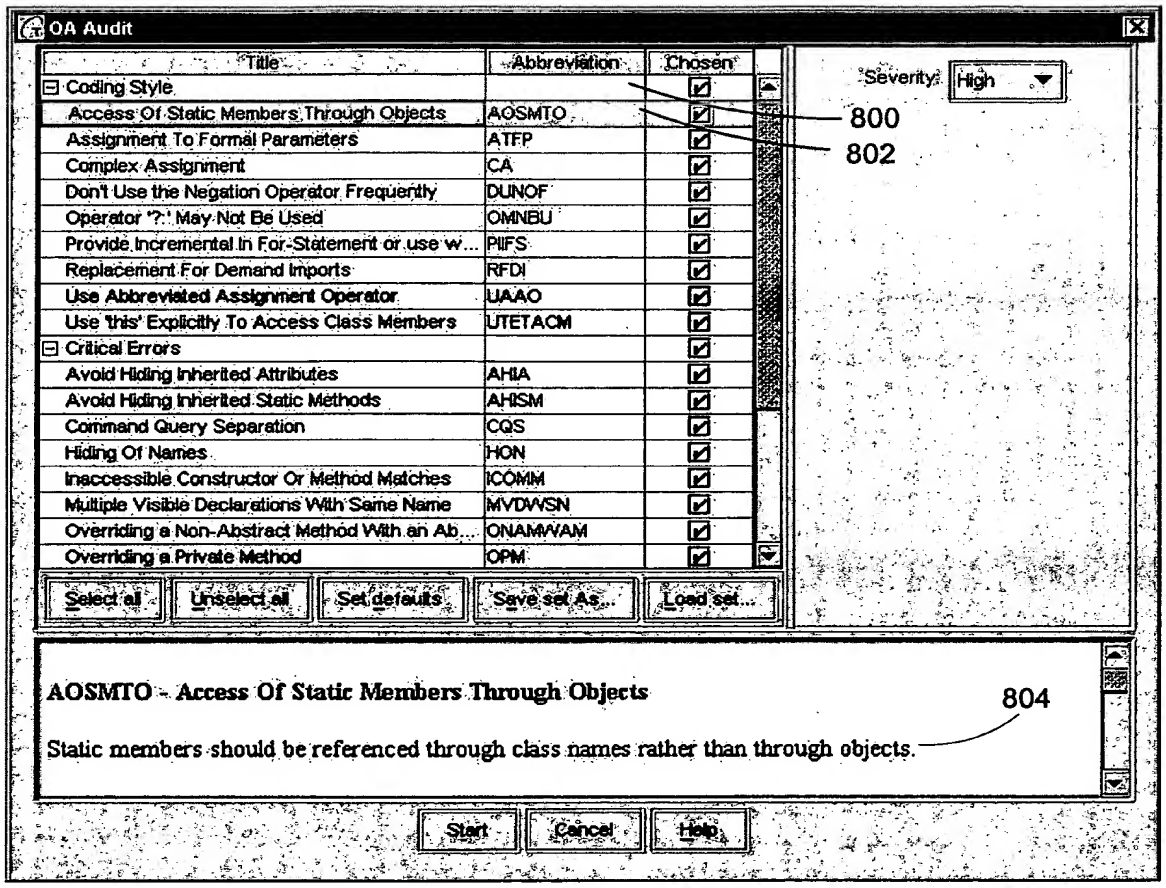

FIG. 8A

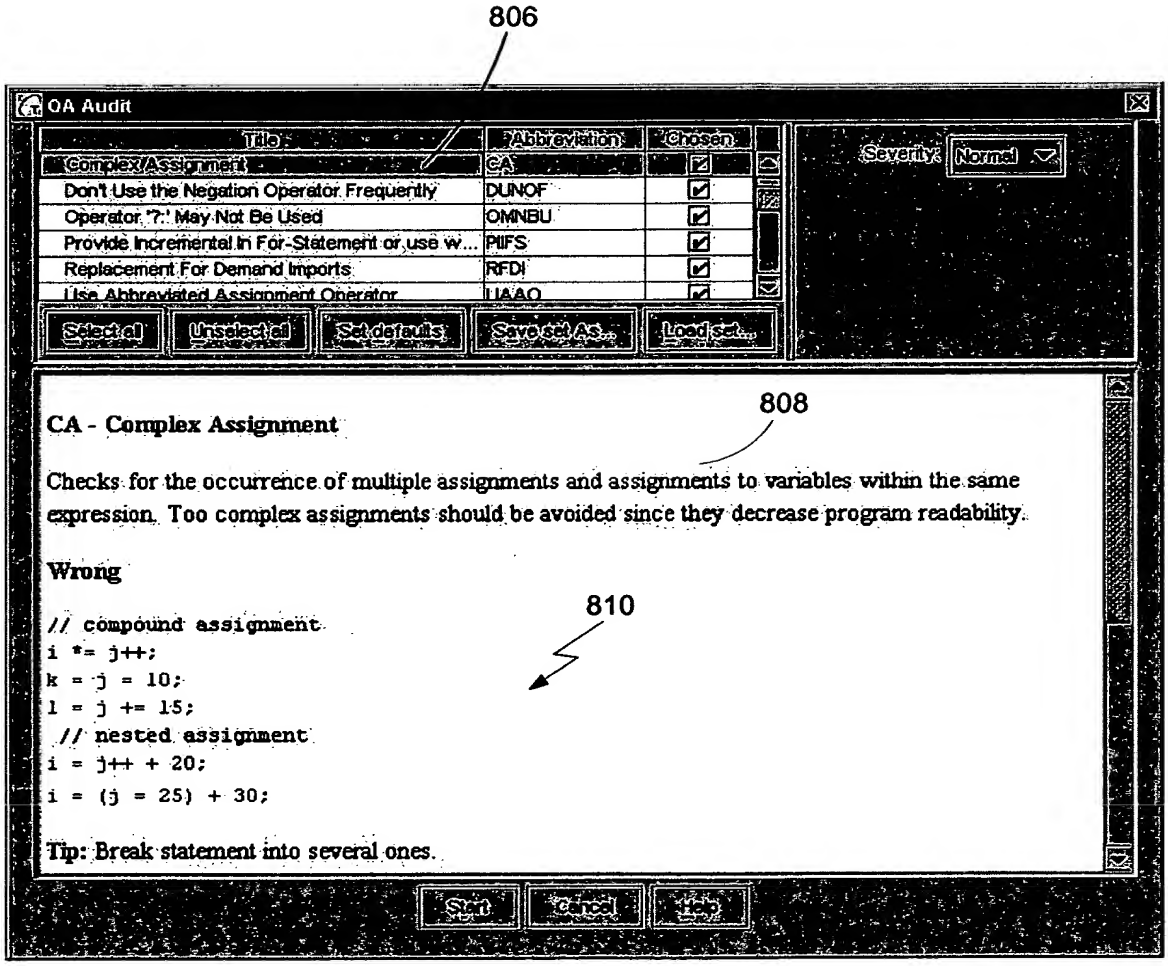
806
QA Audit
Title
Abbreviation
Chosen
Complex Assignment
CA
Don't Use the Negation Operator Frequently
DUNOF
Operator '?:' May Not Be Used
OMNBU
Provide Incremental In For-Statement or use w...
PIFS
Replacement For Demand Imports
RFDI
Use Abbreviated Assignment Operator
UAAO
Severity:
Normal
Select all
Unselect all
Set defaults
Save set As...
Load set...
808
CA - Complex Assignment
Checks for the occurrence of multiple assignments and assignments to variables within the same expression. Too complex assignments should be avoided since they decrease program readability.
Wrong
810
// compound assignment
i *= j++;
k = j = 10;
l = j += 15;
// nested assignment
i = j++ + 20;
i = (j = 25) + 30;
Tip: Break statement into several ones.

FIG. 8B

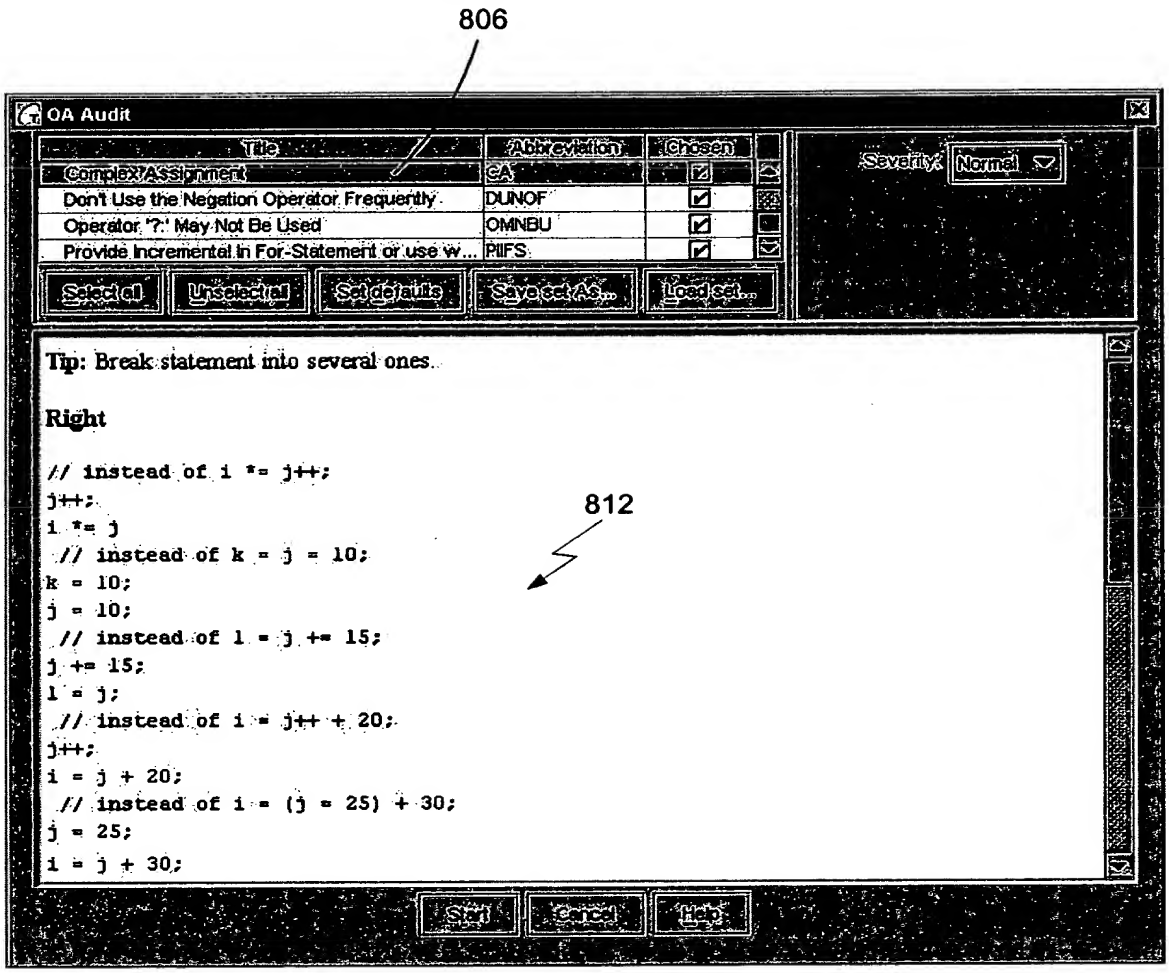
806
OA Audit
Title
Abbreviation
Chosen
Complex Assignment
CA
Don't Use the Negation Operator Frequently
DUNOF
Operator '?:' May Not Be Used
OMNBU
Provide Incremental in For-Statement or use w...
PIFS
Severity:
Normal
Select all
Unselect all
Set defaults
Save set As...
Load set...
Tip: Break statement into several ones.
Right
// instead of i *= j++;
j++;
i *= j
// instead of k = j = 10;
k = 10;
j = 10;
// instead of l = j += 15;
j += 15;
l = j;
// instead of i = j++ + 20;
j++;
i = j + 20;
// instead of i = (j = 25) + 30;
j = 25;
i = j + 30;
812
Start
Cancel
Help

FIG. 8C

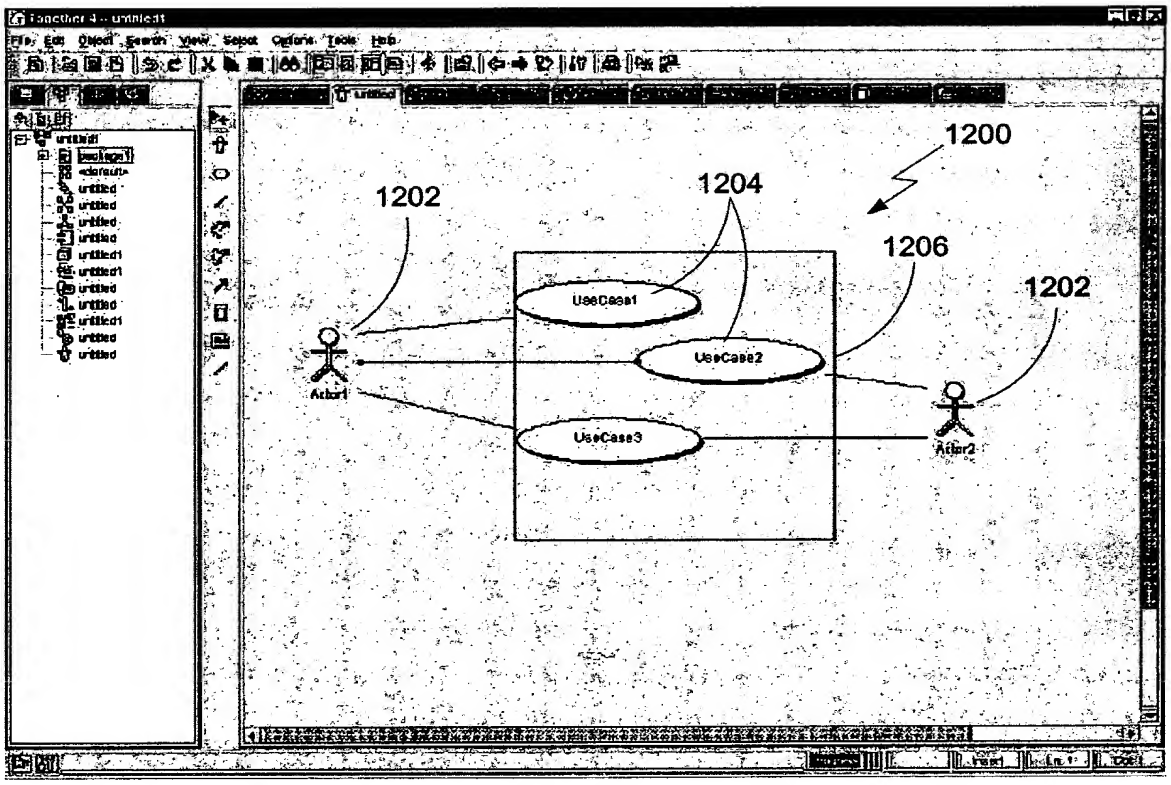
1200
1202
1204
1206
1202
UseCase1
UseCase2
UseCase3
Actor1
Actor2

FIG. 12

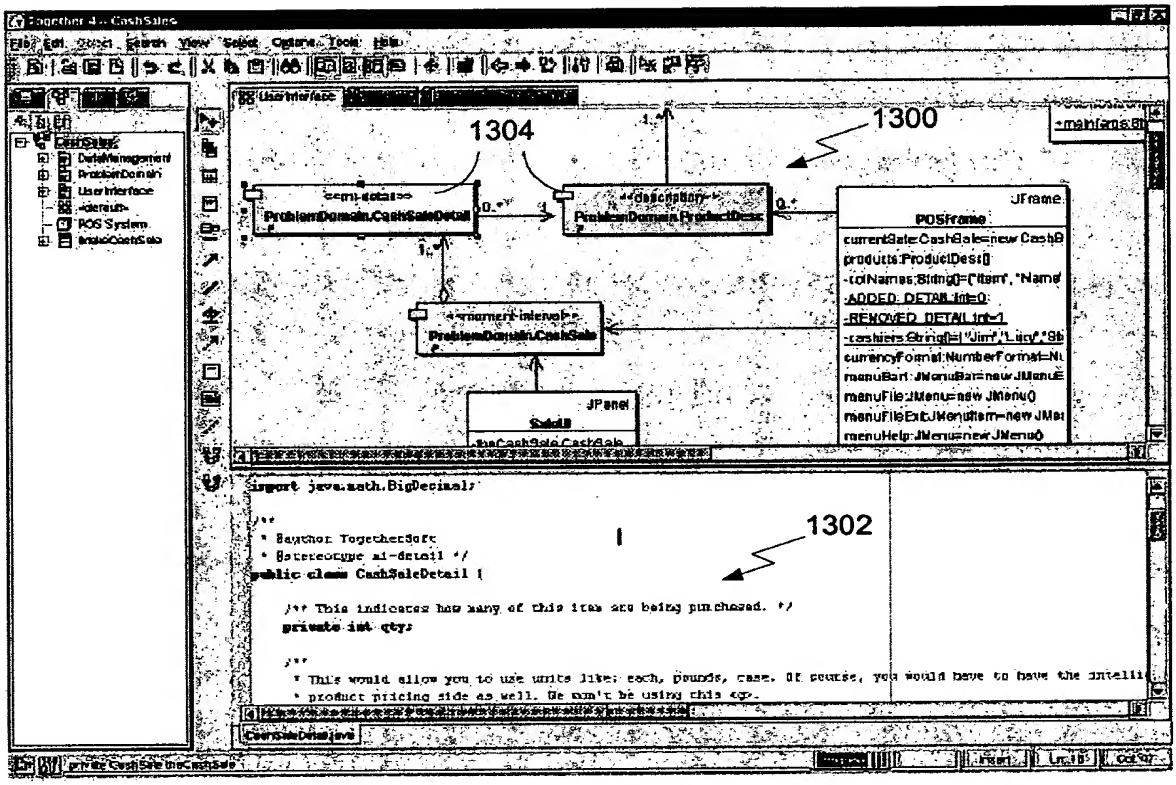
1304
1300
1302
JFrame
POSFrame
JPanel
import java.math.BigDecimal;
public class CashSaleDetail {
private int qty;

FIG. 13

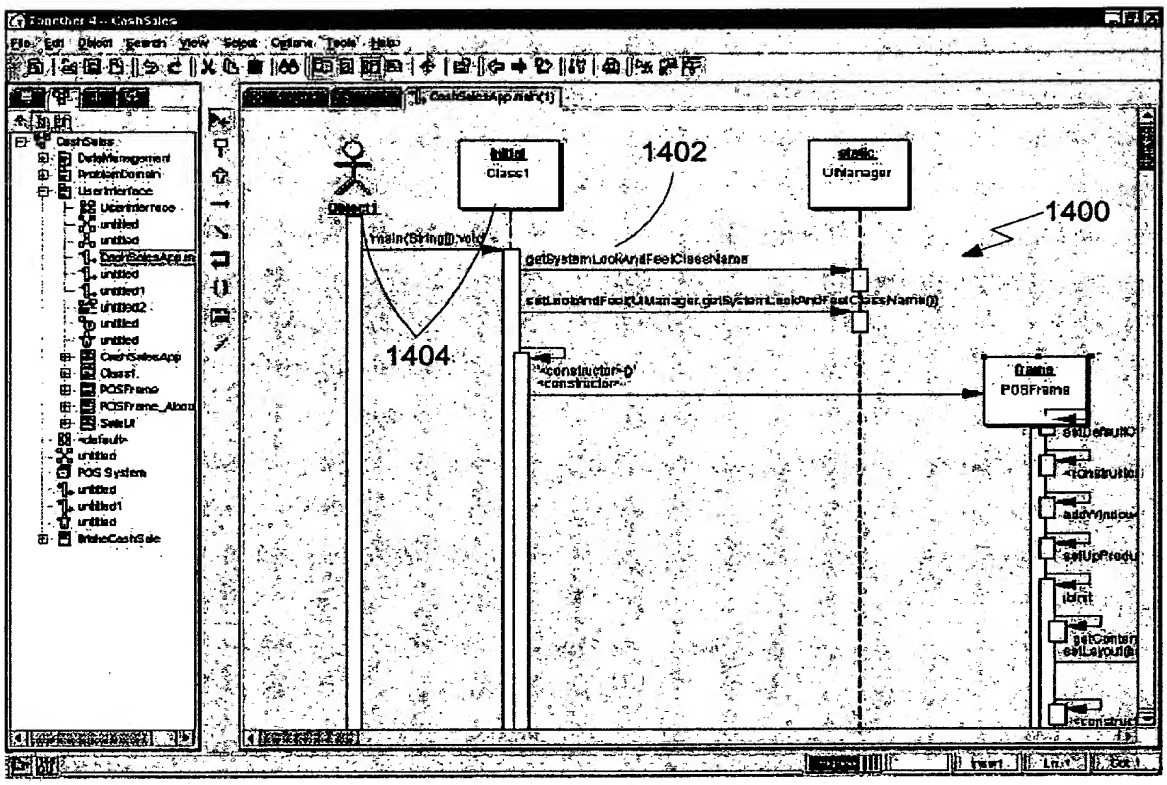
1402
1400
1404
Class1
UIManager
Frame
POSFrame
getSystemLookAndFeelClassName

FIG. 14

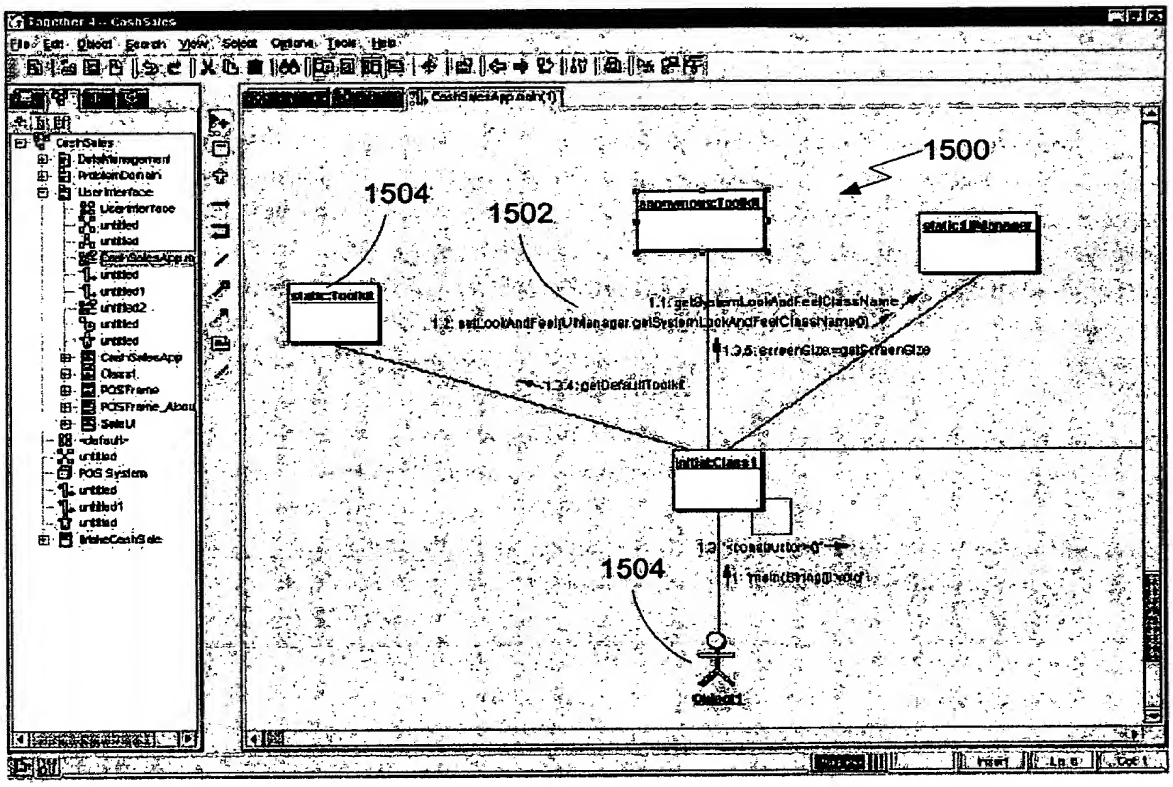

FIG. 15

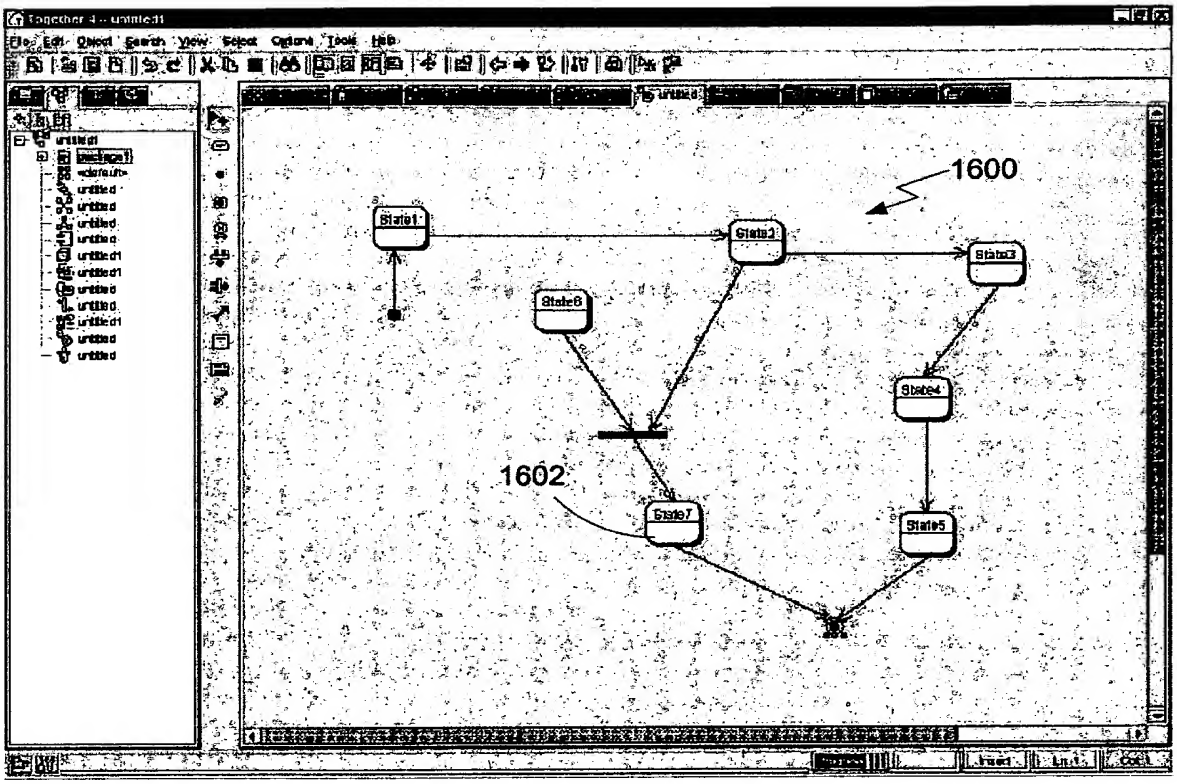
1600
State1
State2
State3
State6
State4
1602
State7
State5

FIG. 16

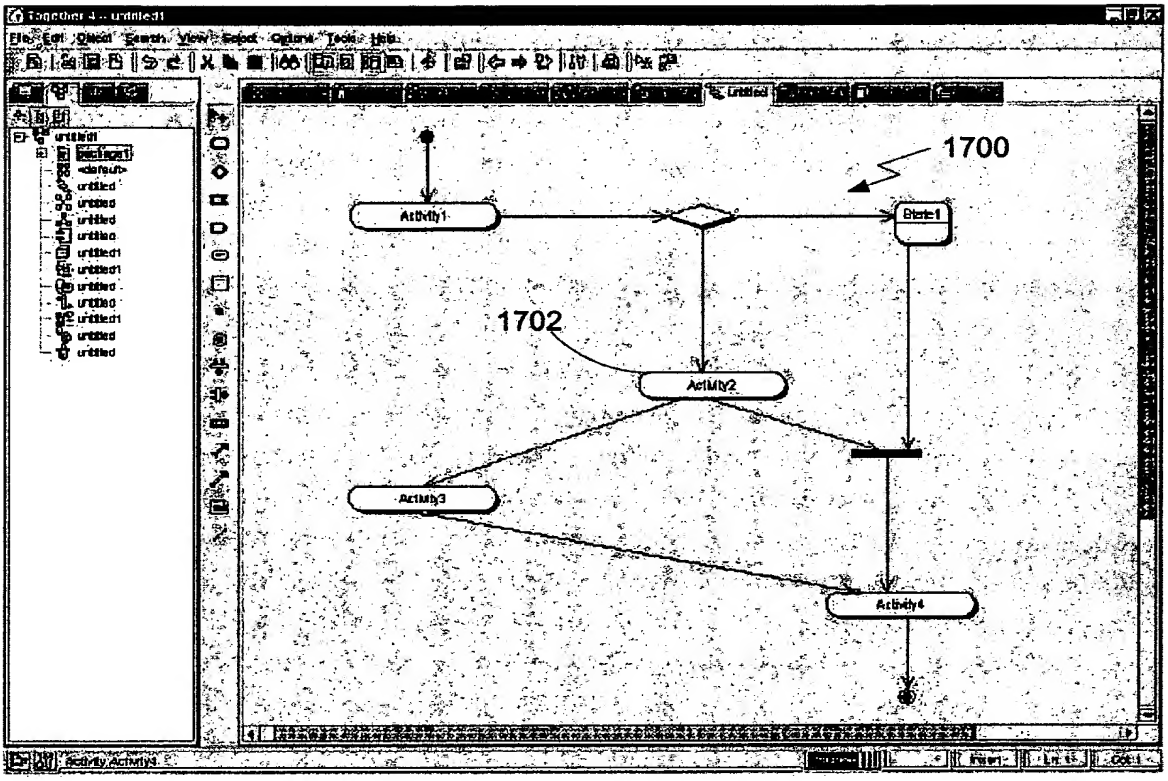
1700
1702
Activity1
State1
Activity2
Activity3
Activity4

FIG. 17

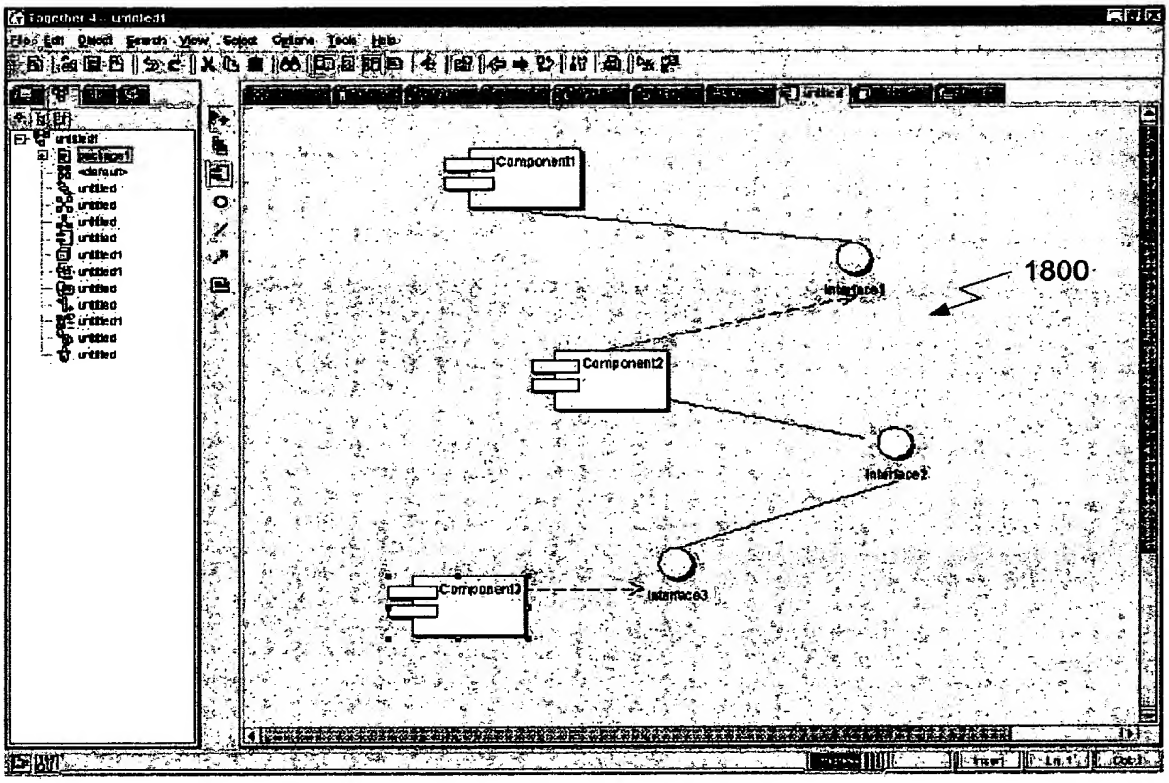
Component1
Interface1
1800
Component2
Interface2
Component3
Interface3

FIG. 18

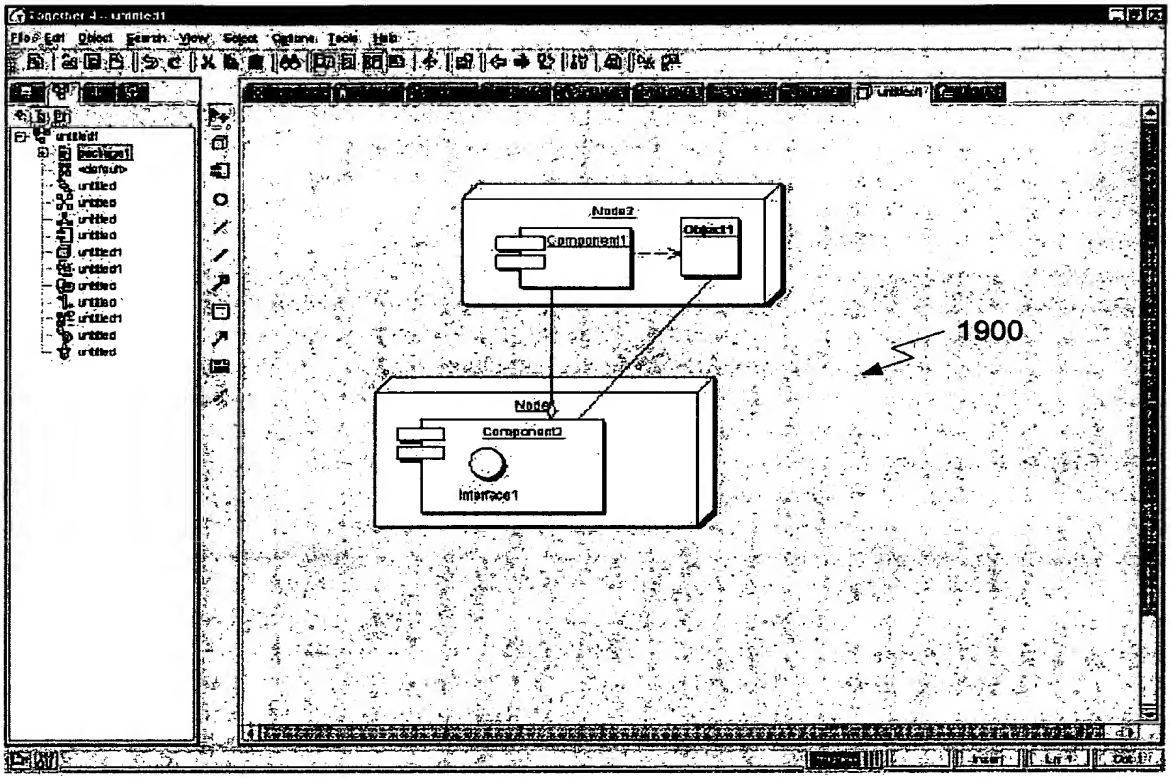
Node2
Component1
Object1
1900
Node
Component3
Interface1

FIG. 19